Soviet Physics – Acoustics: Analytic Subject Index for Vol. 1, 1955

(Russian Original Volume 1, 1955)

General Unclassified
Acoustics Institute
Architectural Acoustics
Books and Bibliographies
The Ear and Hearing
Applied Acoustics, Instruments and Apparatus
Musical Instruments and Music
Noise
Standards
Speech and Singing
Ultrasonics (Supersonics)
Waves and Vibrations
Underwater Sound

General Unclassified

Acoustics Conference for 1956 - 401.
Conference on Electroacoustics - 308.
N. N. Andreev (On his 75th Birthday) - 209.

Acoustics Institute

From the Editor - 1.

Books and Bibliographies

Bibliography - 399.

The Ear and Hearing

Conference on Physiological Acoustics - 102.
Devices to Protect Hearing Against Harmful Effects of Noise, I. M. Polkovskii - 262.

Applied Acoustics, Instruments and Apparatus

Acoustic Power of the Noise Created by Airduct Elements, E. Ia. Iudin - 383.
Application of a Composite Piezoelectric Dipole in Investigating the Mechanical Properties of Polymers, I. G. Mikhailov and V. A. Solov'ev - 358.
Capacitive Analyzer for Sound Field, V. A. Zverev, V. M. Bokov and I. E. Lur'e - 232.
Dependence of the Coercive Force and the Permittivity of Ceramic Barium Titanate Upon Mechanical Stresses, N. A. Roi - 366.
Design of a Ribbon Microphone, A. V. Rimskii-Korsakov - 270.
Directional Properties of Acoustic Scattering Lenses, L. N. Bondareva and M. I. Karnovskii - 133.
Effect of the Magnetic Field Distribution at the Recording-Head Gap Upon the Loss of Remanent Induction in the Tape, G. S. Vekler - 141.
Electronic-Acoustical Transducer for the Visualization of Sound Images, P. K. Oshchepkov, L. D. Rozenberg and Iu. B. Semennikov - 358.
Equivalent Circuits of Elements of Vibrating Systems with Distributed Constants, I. G. Rusakov - 286.
Measurement of Non-Linear Distortion in Loudspeakers by Using Infrasonic Modulation, B. G. Belkin - 12.
Method for Measuring Acoustic Impedance on the Basis of Measuring the Geometric Difference Between Sound Pressures, V. N. Fedorovich - 374.
Method for Measuring the Mechanical Parameters of Rubber at Sonic and Ultrasonic Frequencies, V. V. Tiutekin - 370.
Motion Picture Theater Loudspeaker with Scattering Sound Lens, B. G. Belkin - 214.
Temperature Dependence of Electrostriction and Elastic Properties of Ceramic Barium Titanate, N. A. Roi - 278.

Noise

Intensity of Harmonic and Modulation Components when Waves of Complex Shape are Nonlinearly Distorted, V. M. Vol'f - 334.
Measurement of the Correlation Coefficient, S. G. Gershman and E. L. Feinberg - 340.
Nonlinear Distortion of a Nonperiodic Signal in an Electroacoustic Channel, A. V. Rimskii-Korsakov - 175.

Speech and Singing

Conference of the Fourth Research Commission of the International Consultative Committee on Telephony (ICCT) - 192.
Tonal Method for Determining the Intelligibility of Speech Transmitted by Communications Channels, A. D. Tkachenko - 182.

Ultrasonics (Supersonics)

Application of a Composite Piezoelectric Dipole in Investigating the Mechanical Properties of Polymers, I. G. Mikhailov and V. A. Solov'ev - 358.
Conference on Physical Acoustics and Ultrasonics - 103.
Electronic-Acoustical Transducer for the Visualization of Sound Images, P. K. Oshchepkov, L. D. Rozenberg and Iu. B. Semennikov - 358.
Investigation of the Propagation of Ultrasonic Waves in the Critical Region of a Liquid-Vapor System, V. F. Nozdrev - 249.

Measurement of the Acoustic Parameters of Materials at Ultrasonic Frequencies by Means of a Pulse Pipe, N. S. Ageeva - 117.
Method for Measuring the Mechanical Parameters of Rubber at Sonic and Ultrasonic Frequencies, V. V. Tiutekin - 370.
Production of Ultrasonic Radiation of Constant Intensity when Sounding in a Vessel with an Untuned Bottom, I. V. Skards - 288.
Survey of Methods Used for the Visualization of Ultrasonic Fields, L. D. Rozenberg - 105.

Waves and Vibrations (see also Underwater Sound)

Analysis of Gain of Cylindrical Sound-Focusing Systems, L. D. Rozenberg - 73.
Concerning Certain Second-Order Quantities in Acoustics, N. N. Andreev - 2.
Concerning One Type of Attenuation of Waves Propagated in Inhomogeneously-Stratified Media, L. M. Brekhovskikh and I. D. Ivanov - 23.
Concerning the General Relationship Between Absorption and Dispersion of Sound Waves, V. L. Ginzberg - 32.
Correlation of Amplitude and Phase Fluctuations for Wave Propagation in a Medium with Random Irregularities, L. A. Chernov - 94.
Diffraction of Plane Sound Waves by a Spherical Cavity, D. V. Sivukhin - 82.
Diffraction of Sound Upon a Thin Bounded Plate in Liquid, L. M. Liamshev - 145.
Equivalent Circuits of Elements of Vibrating Systems with Distributed Constants, I. G. Rusakov - 286.
Experimental Investigation of Diffraction of Acoustic Waves by Periodic Structures, A. N. Leporskii - 50.
On the Problem of Axial Oscillations of Polarized Barium Titanate Plates, I. P. Goliamina - 42.
Problem of Mutual Interaction Between Soundwaves, A. G. Gorelik and V. A. Zverev - 353.
Radiation of Sound by the Vibrating Boundaries of an Arbitrary Wedge, Part I, G. D. Maliuzhinets - 152.
Radiation of Sound from Vibrating Faces of an Arbitrary Wedge, Part II, G. D. Maliuzhinets - 240.
Scattering of Sound from Plane Inhomogeneous Surfaces with Periodically Varying Acoustic Admittance, Iu. P. Lysanov - 60.
Secondary Field in Stereophonic Twin-Channel Transmission and Certain Fixed Positions of the Sound Source in the Primary Field, P. G. Tager - 300.
Solution of Inverse Problem of Geometric Acoustics, B. E. Kinber - 235.
Survey of Methods for Evaluating and Measuring the Diffuseness of a Sound Field, V. V. Furduev - 312.

Underwater Sound

Diffraction of Sound Upon a Thin Bounded Plate in Liquid, L. M. Liamshev - 145.
Investigation of Acoustic Shadow in a Medium which has a Vertical Sound Velocity Gradient, A. N. Barkhatov - 128.
Measurement of Sound Attenuation in a Surface Isothermal Layer of Water, A. N. Barkhatov - 327.
Surface Waves Launched in the Ocean by Underwater Earthquakes, Iu. L. Gazarian - 217.

AUTHOR INDEX TO VOLUME 1

Ageeva, N. S. Measurement of the Acoustic Parameters of Materials at Ultrasonic Frequencies by Means of a Pulse Pipe - 117.
Andreev, N. N. Concerning Certain Second-Order Quantities in Acoustics - 2.
Barkhatov, A. N. Investigation of Acoustic Shadow i a Medium Which Has a Vertical Sound Velocity Gradient - 128.
— Measurement of Sound Attenuation in a Surface Isothemal Layer of Water - 327.
Belkin, B. G. Measurement of Non-Linear Distortion in Loudspeakers by Using Infrasonic Modulation - 12.
— Motion Picture Theater Loudspeaker with Scattering Sound Lens - 214.
Bokov, V. M. (see Zverev, V. A.) - 232.
Bondareva, L. N. and M. L. Karnovskii. Directional Properties of Acoustic Scattering Lenses - 133.
Brekhovskikh, L. M. and I. D. Ivanov. Concerning One Type of Attenuation of Waves Propagating in Inhomogeneously-Stratified Media - 23.
Chernov, L. A. Correlation of Amplitude and Phase Fluctuations for Wave Propagation in a Medium with Random Irregularities - 94.
Fedorovich, V. N. Method for Measuring Acoustical Impedance on the Basis of Measuring the Geometric

Difference Between Sound Pressures - 374.
Feinberg, E. L. (see Gershman, S. G.) - 340.
Furduev, V. V. Survey of Methods for Evaluating and Measuring the Diffuseness of a Sound Field - 312.
Gazarian, Iu. L. Surface Waves Launched in the Ocean by Underwater Earthquakes - 217.
Gershman, S. G. and E. L. Feinberg. Measurement of the Correlation Coefficient - 340.
Ginzberg, V. L. Concerning the General Relationship Between Absorption and Dispersion of Sound Waves - 32.
Goliamina, I. P. On the Problem of Axial Oscillations of Polarized Barium Titanate Plates - 42.
Gorelik, A. G. and V. A. Zverev. Problem of Mutual Interaction Between Soundwaves - 353.
Iudin, E. Ia. Acoustic Power of the Noise Created by Airduct Elements - 383.
Ivanov, I. D. (see Brekhovskikh, L. M.) - 23.
Karnovskii, M. I. (see Bondareva, L. N.) - 133.
Kinber, B. E. Solution of Inverse Problem of Geometric Acoustics - 235.
Leporskii, A. N. Experimental Investigation of Diffraction of Acoustic Waves by Periodic Structures - 50.
Liamshev, L. M. Diffraction of Sound Upon a Thin Bounded Plate in Liquid - 145.
Lur'e, L. E. (see Zverev, V. A.) - 232.
Lysanov, Iu. P. Scattering of Sound From Plane Inhomogeneous Surfaces with Periodically Varying Acoustic Admittance - 60.
Maliushinets, G. D. Radiation of Sound from the Vibrating Boundaries of an Arbitrary Wedge. Part I - 152.
– Radiation of Sound from the Vibrating Boundaries of an Arbitrary Wedge. Part II - 240.
Mikhailov, I. G. and V. A. Solov'ev. Application of a Composite Piezoelectric Dipole in Investigating the Mechanical Properties of Polymers - 358.
Nozdrev, V. F. Investigation of the Propagation of Ultrasonic Waves in the Critical Region of a Liquid-Vapor System - 249.
Oshchepkov, P. K., L. D. Rozenberg and Iu. B. Semennikov. Electronic-Acoustical Transducer for the Visualization of Sound Images - 362.
Polkovskii, L. M. Devices to Protect Hearing Against Harmful Effects of Noise - 262.
Rimskii-Korsakov, A. V. Design of a Ribbon Microphone - 270.
– Nonlinear Distortion of a Nonperiodic Signal in an Electroacoustic Channel - 175.
Roi, N. A. Temperature Dependence of Electrostriction and Elastic Properties of Ceramic Barium Titanate - 278.
– Dependence of the Coercive Force and the Permittivity of Ceramic Barium Titanate upon Mechanical Stresses - 366.
Rozenberg, L. D. Analysis of Gain of Cylindrical Sound-Focusing Systems - 73.
– Survey of Methods Used for the Visualization of Ultrasonic Fields - 105.
– (see Oshchepkov, P. K.) - 362.
Rusakov, I. G. Equivalent Circuits of Elements of Vibrating Systems with Distributed Constants - 286.
Semennikov, Iu. B. (see Oshchepkov, P. K.) - 362.
Sivukhin, D. V. Diffraction of Plane Sound Waves by a Spherical Cavity - 82.
Skards, L. V. Production of Ultrasonic Radiation of Constant Intensity when Sounding in a Vessel with an Untuned Bottom - 288.
Solov'ev, V. A. (see Mikhailov, I. G.) - 358.
Tager, P. G. Secondary Field in Stereophonic Twin-Channel Transmission and Certain Fixed Positions of the Source of Sound in the Primary Field - 300.
Tiutekin, V. V. Method for Measuring the Mechanical Parameters of Rubber at Sonic and Ultrasonic Frequencies - 370.
Tkachenko, A. D. Tonal Method for Determining the Intelligibility of Speech Transmitted by Communications Channels - 182.
Veksler, G. S. Effect of the Magnetic Field Distribution at the Recording-Head Gap Upon the Loss of Remanent Induction in the Tape - 141.
Vol'f, V. M. Intensity of Harmonic and Modulation Components when Waves of Complex Shape are Nonlinearly Distorted - 334.
Zverev, V. A., V. M. Bokov and I. E. Lur'e. Capacitive Analyzer for Sound Field - 232.
– (see Gorelik, A. G.) - 353.